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Abstract number: S2-539

The active Sun and its implication for the heliosphere  
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## **On the origin of different types of non-thermal emission in the course of CME development**

Zimovets, I.<sup>1</sup>

<sup>1</sup>Space Research Institute of RAS, Space Plasma Physics Department

Results of analysis of multi-wavelength multi-instrumental (AIA/SDO, RHESSI, NRH, LASCO/SOHO, MDI/SOHO, SECCHI/STEREO) spatially-resolved observations of the 2010 November 3 partially behind-the-East-limb solar flare are presented. Special attention is given to relationships between different phases of the flux rope eruption (CME formation) observed by AIA in details and the sources of different types of non-thermal electromagnetic emission in the active region. The main findings are: 1) initial stage of the eruption was associated with appearance of double coronal hard X-ray source whose lower part was associated with the tops of the flare loops and whose upper part was associated with the erupting blob of hot ( $T=10$  MK) plasma; 2) the sources of Type IV radio burst and DCIM have appeared at the periphery of the active region aside from the erupting flux rope just at the time of the double coronal hard X-ray source appearance; 3) spatial link between the source of Type IV burst, the double coronal hard X-ray source, and the erupting flux rope was evident; 4) the source of Type II radio burst has appeared slightly above (or inside) the hot plasma blob just after the disappearance of the coronal hard X-ray source and its trajectory seemed to coincide with that of the erupting flux rope and CME; 5) no Type III radio bursts were observed during the event implying an absence of non-thermal electrons escape from the erupting structure that is in agreement with its closed morphology. Generalizing, the eruptive event under study represents a prominent and potentially unexhausted example for verification of different flare models (especially the "standard" one) and reveals close links between different episodes of the eruption and the origins of non-thermal emission of different types.